



PERMIT TO CONSTRUCT/OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

LEGAL OWNER
OR OPERATOR:

BOEING REALTY CORPORATION
3760 KILROY AIRPORT WAY STE
LONG BEACH, CA 90806

ID 130928

Equipment Location: 17200 - 1/2 HARBORGATE, TORRANCE, CA 90501

Equipment Description:

IN-SITU SOIL-VAPOR EXTRACTION AND TREATMENT SYSTEM CONSISTING OF:

1. VAPOR EXTRACTION WELLS.
2. AIR/WATER SEPARATOR.
3. TWO CARBON ADSORBERS, VALUE ENGINEERING, IN SERIES, EACH WITH 2,000 TO 10,000 POUNDS OF ACTIVATED CARBON.
4. EXTRACTION BLOWER, 40 H.P., MAXIMUM 900 SCFM.
5. EXHAUST STACK, 4" DIA. MAXIMUM X 10' HIGH MINIMUM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATIONS UNDER WHICH THIS PERMIT IS ISSUED.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
3. IDENTIFICATION TAG (S) OR NAMEPLATE (S) SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG (S) OR PLATE (S) SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE AFFIXED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
4. CURRENT CONTACT PERSON NAME, COMPANY, AND PHONE NUMBER SHALL BE DISPLAYED IN A PERMANENT AND CONSPICUOUS POSITION.
5. A FLOW INDICATOR SHALL BE MAINTAINED AT ALL INLET STREAM (S) TO THE VAPOR CONTROL SYSTEM TO INDICATE THE TOTAL AIR FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE AVAILABLE TO INDICATE THE CORRESPONDENT FLOW RATE, IN SCFM, TO THE PRESSURE READING.
6. THE TOTAL FLOW RATE MEASURED UNDER CONDITION NO. 5 SHALL NOT EXCEED 900 SCFM.

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7. THE EXTRACTION BLOWER SHALL ONLY BE OPERATED WHEN ALL EXTRACTED VAPORS ARE VENTED TO TWO CARBON ADSORBERS CONNECTED IN SERIES, EACH WITH AT LEAST 2000 TO 10000 POUNDS OF TOTAL ACTIVATED CARBON.
8. VOLATILE ORGANIC COMPOUND (VOC) CONCENTRATION SHALL BE MEASURED AT THE INLET AND OUTLET OF THE PRIMARY AND SECONDARY ADSORBERS AT LEAST ONCE EVERY OPERATING DAY FOR THE FIRST 14 DAYS AND WEEKLY THEREAFTER, BY USING A PHOTO IONIZATION DETECTOR OR SCAQMD APPROVED ORGANIC VAPOR ANALYZER CALIBRATED IN PARTS PER MILLION BY VOLUME (PPMV) OF HEXANE.
9. GRAB SAMPLES SHALL BE COLLECTED FROM THE OUTLET OF THE SECONDARY ADSORBER, AT LEAST ONCE EVERY OPERATING WEEK FOR THE FIRST MONTH AND ON A MONTHLY BASIS, THEREAFTER. THE SAMPLES SHALL BE ANALYZED FOR VOLATILE ORGANIC COMPOUNDS (VOCs) CONCENTRATIONS, IN PPMV AS HEXANE, AND SPECIATED (FOR COMPOUNDS SHOWN UNDER CONDITION NO. 10) IN ACCORDANCE WITH THE SCAQMD APPROVED METHODS.
10. EMISSIONS FROM THIS SYSTEM SHALL NOT EXCEED THE FOLLOWING (BASED ON SAMPLING PER CONDITION NO. 9):

VOLATILE ORGANIC COMPOUND (VOC)	CONCENTRATION (PPMV)
TPH, AS HEXANE	10
METHYLENE CHLORIDE	1.0
TETRACHLOROETHYLENE (PCE)	0.25
TRICHLOROETHYLENE	1.5
1, 2-DICHLOROETHYLENE	0.50
1,1 DICHLOROETHANE (1,1 DCA)	1.0
BENZENE	0.25
CHLOROFORM	0.5
VINYL CHLORIDE	0.05
CARBON TETRACHLORIDE	0.05
1,1 DICHLOROETHYLENE (1,1 DCE)	10.0
OTHER RULE 1401 CARCINOGENS IN TRACE AMOUNTS	< 0.005 EACH.

11. WHENEVER THE VOC CONCENTRATION AT THE OUTLET OF THE PRIMARY ADSORBER REACHES 15 PPMV, AS HEXANE, THEN THE CARBON SHALL BE REPLACED AS FOLLOWS:
 - A. PRIMARY ADSORBER REPLACED WITH EITHER FRESH ADSORBENT OR ADSORBENT IN SECONDARY ADSORBER,
 - B. SECONDARY ADSORBER REPLACED WITH FRESH ADSORBENT.
12. THIS EQUIPMENT SHALL NOT BE OPERATED TO EXTRACT AND TREAT THE COMPOUNDS LISTED IN TABLE-I, UNDER RULE 1401, AMENDED ON MAY 3, 2002, EXCEPT THE FOLLOWING;

TPH (AS GASOLINE VAPORS)
METHYLENE CHLORIDE
METHYL ETHYL KETONE
TOLUENE

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TETRACHLOROETHYLENE (PCE)
TRICHLOROETHYLENE
1, 2-DICHLOROETHYLENE
XYLENE
1,1,1-TRICHLOROETHANE (1,1,1 TCA)
1,1 DICHLOROETHANE (1,1 DCA)
BENZENE
CHLOROFORM
ETHYLBENZENE
METHYL-TER-BUTYL ETHER (MTBE)
METHYL BROMIDE
VINYL CHLORIDE
CARBON TETRACHLORIDE
4-METHYL-2-PENTANONE (MIBK)
1,1 DICHLOROETHYLENE (1,1 DCE)
CFC-11
CFC-12
CFC-113
OTHER TOXICS, IN TRACE AMOUNTS.

THIS SHALL BE VERIFIED BY THE SITE ASSESSMENT, PILOT TEST RESULTS, VAPOR SAMPLING, OR OTHER APPROVED STUDIES.

13. THE ACTIVATED CARBON USED IN THE ADSORBER SHALL HAVE A CARBON TETRACHLORIDE (CTC) NO. OF NOT LESS THAN 60% AS MEASURED BY ASTM METHOD D3467.
14. THE OPERATOR SHALL SUBMIT IN WRITING THE RESULTS OF THE FIRST MONTH OF MONITORING RESULTS, GRAB SAMPLES' ANALYSIS, THE WEEKLY VAPOR INLET FLOW RATE READINGS (SCFM), AND THE INITIAL VERIFICATION OF SOIL CHARACTERIZATION ANALYSIS. THE RESULTS SHALL BE SUBMITTED TO THE ATTENTION OF:

SCAQMD, TOXICS AND WASTE MANAGEMENT TEAM, 21865 E. COPLEY DRIVE, DIAMOND BAR, CA 91765. THE SUBMITTAL SHALL INCLUDE COPY OF THE ACTIVE PERMIT AND THE CURRENT PROJECT LOCATION.
15. UPON COMPLETION, ANY VAPOR EXTRACTION WELL (S) AND DUCT (S) SHALL BE CAPPED TO PREVENT VAPORS FROM VENTING TO THE ATMOSPHERE. VAPORS SHALL NOT BE EXTRACTED FROM THE SOIL, UNLESS VENTED TO THE VAPOR CONTROL SYSTEM.
16. RECORDS SHALL BE MAINTAINED AS REQUIRED BY THIS PERMIT FOR COMPLIANCE. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

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AQMD

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

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Permit No.
F54883
A/N 405715

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/gr01
9/12/2002

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